

WHAT IS CLAIMED IS:

1. A sub for delivering a gauge down a well bore, comprising:
  - a. a sub body, having first and second ends attachable to sections of pipe;
  - b. a chamber formed in the sub body for receiving a gauge therein; and
  - c. at least one port in the wall of the sub body in fluid communication with the chamber to allow fluid around the sub body to flow in and out of the chamber so that fluid conditions can be recorded by the gauge.
2. The sub apparatus in claim 1, further comprising a flow bore through the sub body for allowing fluid within the pipe to flow through the sub body.
- 15 3. The sub apparatus in claim 1, wherein the gauge is threadably secured into the chamber.
4. The sub apparatus in claim 1, wherein the gauge rests on a floor of the chamber when the gauge has been threadably secured in the chamber.
- 20 5. The sub apparatus in claim 1, wherein the gauge is of the type which records various conditions in the well bore, including temperature, pressure, viscosity, and other conditions.
- 25 6. The sub apparatus in claim 1, wherein the sub would be dimensioned to be threaded onto various sizes of pipe with various gauges of threads.
7. The sub apparatus in claim 1, wherein the port through the sub wall would comprise at least three ports, equidistant apart, each port allowing fluid contact from

30 fluid outside the sub into the chamber.

8. The sub apparatus in claim 1, further comprising a shock absorbing tip on the lower end of the gauge for resting on a floor of the chamber and absorbing impact when the sub is lowered down the well bore.

35 9. A sub apparatus for protecting a gauge being delivered down a well bore, comprising:

a. a sub body, having first and second ends threadably attachable to sections of pipe above and below the sub apparatus;

40 b. a chamber formed in the sub body;

c. a gauge receivable into the chamber and secured therein;

d. a plurality of ports formed in the wall of the sub body allowing fluid around the outside of the sub body to flow in and out of the chamber so that fluid conditions can be recorded by the gauge.

10. The sub apparatus in claim 9, wherein the gauge includes a cushion on its lower end to rest on a floor of the chamber when the gauge has been threadably secured in

50 the chamber.

11. The sub apparatus in claim 9, wherein the gauge is of the type which records various conditions in the well bore, including temperature, pressure, viscosity, and other conditions.

55 12. The sub apparatus in claim 9, wherein the sub would be dimensioned to be threaded onto various sizes of pipe with various gauges of threads.

13. The sub apparatus in claim 9, wherein an upper end of  
60 the gauge is threadably engageable into the upper end of  
the chamber for securing the gauge in place in the chamber.

14. A sub apparatus for protecting a gauge being delivered  
down a well bore, comprising:

a. a sub body, having first and second ends  
65 threadably attachable to sections of pipe above and below  
the sub apparatus;

b. a flow bore through the sub body for allowing  
fluid within the sections of pipe to flow through the sub  
body;

c. a chamber formed in the sub body for receiving a  
gauge which records conditions within the well bore  
therein; and

d. a plurality of ports formed in the wall of the  
sub body allowing fluid around the outside of the sub body  
75 to flow in and out of the chamber so that fluid conditions  
can be recorded by the gauge.

15. The sub apparatus in claim 9, further comprising a  
flow bore through the sub body for allowing fluid within  
the sections of pipe to flow through the sub body.